



Water-Data Report 2007

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA

Spokane Basin
Lower Spokane Subbasin

LOCATION.--Lat 47°51'42", long 117°51'28" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.2, T.27 N., R.39 E., Stevens County, WA, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank 800 ft downstream from Chamokane Falls, 1.4 mi upstream from mouth, 1.8 mi north of town of Long Lake, and at mile 1.6.

DRAINAGE AREA.--179 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1971 to September 1978, April 1984 to September 1987 (seasonal records), October 1987 to current year.

Water temperature records April 1984 to September 1987 (seasonal records); October 1987 to September 1989.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair including estimated daily discharges. No known regulation. Diversions upstream for irrigation, domestic use, and fish hatchery. Pumpage from ground-water wells can cause small fluctuations in discharge. U.S. Geological Survey satellite telemeter at site.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--27 years (water years 1972-78, 1988-2007), 62.7 ft³/s, 4.76 in/yr, 45,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s, Apr. 25, 1975, gage height, 5.06 ft, from rating curve extended above 500 ft³/s, on basis of slope-area measurement of peak flow; maximum gage height, 5.37 ft, Mar. 20, 1997; minimum discharge, 9.4 ft³/s, Dec. 30, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 712 ft³/s, Mar. 13, gage height, 3.70 ft; minimum discharge, 26 ft³/s, on many days during July thru September.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	31	31	e28	e34	e34	81	124	48	34	e28	e26	27
2	31	32	e29	e35	e34	70	119	49	34	e28	e27	27
3	31	32	e30	36	e34	76	111	50	33	e28	e27	26
4	31	33	e31	36	e35	74	101	48	33	e27	e27	27
5	31	33	e32	35	e35	74	94	46	37	e27	27	26
6	32	34	e33	35	e36	78	87	45	35	e27	27	27
7	31	38	e34	37	e35	88	81	44	34	e27	27	27
8	32	34	e34	38	e35	103	78	43	33	29	27	27
9	32	34	e34	39	34	122	80	42	33	28	28	27
10	32	35	e34	40	36	121	80	42	33	27	28	27
11	32	38	e35	e37	43	140	78	41	33	28	28	27
12	32	35	e36	e34	48	284	74	40	33	28	28	27
13	32	38	e37	e32	54	591	70	40	33	28	29	27
14	31	35	41	e31	66	457	71	40	32	28	e29	27
15	32	34	51	e31	70	322	72	40	32	27	e29	27
16	38	33	51	e32	71	265	68	39	32	27	28	27
17	32	33	50	e33	78	232	66	38	32	27	28	27
18	32	33	44	e33	84	220	64	37	32	28	28	27
19	32	34	41	e34	90	228	62	37	32	32	30	28
20	32	35	39	e34	119	266	60	37	32	31	30	28
21	32	33	39	e34	123	296	57	38	e31	31	29	28
22	32	34	38	e35	125	243	57	39	e30	31	29	28
23	32	35	39	e35	109	210	56	39	e30	e30	28	27
24	32	34	37	e34	94	190	55	38	e30	e29	28	28
25	32	33	38	e34	94	197	53	37	e30	e29	27	28
26	32	e30	39	e34	93	200	52	37	e29	e28	27	27
27	32	e29	40	e33	88	184	52	36	e29	e28	28	28
28	32	e29	e36	e33	86	167	50	37	e29	e27	28	28
29	32	e28	e35	e33	---	146	50	36	e29	e27	e28	28
30	32	e28	e34	e33	---	134	48	36	e28	e26	e27	28
31	31	---	e33	e34	---	127	---	35	---	e26	27	---
Total	990	997	1,152	1,068	1,883	5,986	2,170	1,254	957	872	864	818
Mean	31.9	33.2	37.2	34.5	67.2	193	72.3	40.5	31.9	28.1	27.9	27.3
Max	38	38	51	40	125	591	124	50	37	32	30	28
Min	31	28	28	31	34	70	48	35	28	26	26	26
Ac-ft	1,960	1,980	2,280	2,120	3,730	11,870	4,300	2,490	1,900	1,730	1,710	1,620
Cfsm	0.18	0.19	0.21	0.19	0.38	1.08	0.40	0.23	0.18	0.16	0.16	0.15
In.	0.21	0.21	0.24	0.22	0.39	1.24	0.45	0.26	0.20	0.18	0.18	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	28.5	29.8	42.8	64.2	77.4	171	155	63.9	38.4	29.2	26.9	27.0
Max	41.5	47.5	236	239	232	626	564	257	115	59.5	47.2	43.0
(WY)	(1998)	(1974)	(1974)	(1997)	(1995)	(1997)	(1975)	(1975)	(1997)	(1997)	(1997)	(1997)
Min	18.9	19.1	17.1	17.4	21.2	29.9	22.6	19.6	19.4	18.2	18.4	18.1
(WY)	(1993)	(1993)	(1993)	(1993)	(1994)	(1977)	(1992)	(1992)	(1994)	(1994)	(1994)	(1990)

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2006	Water Year 2007		Water Years 1971 - 2007	
Annual total	32,132	19,011			
Annual mean	88.0	52.1		62.7	
Highest annual mean				170	1997
Lowest annual mean				25.8	1994
Highest daily mean	1,010	Jan 11	591	Mar 13	1,750 Mar 20, 1997
Lowest daily mean	27	Jul 29	26	Jul 30	15 Dec 26, 1977
Annual seven-day minimum	27	Aug 1	27	Jul 28	16 Jan 2, 1993
Annual runoff (ac-ft)	63,730		37,710		45,410
Annual runoff (cfsm)	0.492		0.291		0.350
Annual runoff (inches)	6.68		3.95		4.76
10 percent exceeds	235		91		131
50 percent exceeds	38		34		31
90 percent exceeds	29		27		20

